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>Title: [JP06228186A2: 2'-DEOXY-@\(3754/24\)2'S\)-ALKYLPYRIMIDINE NUCL DERIVATIVE](#)

Derwent Title: New 2'-deoxy-(2'S)-alkyl:pyrimidine nucleoside derivs. - are antiviral agents against e.g. herpes simplex. [\[Derwent Record\]](#)

Country: JP Japan

Kind: A



Inventor: MATSUDA AKIRA;
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Assignee: [YAMASA SHOYU CO LTD](#)
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Published / Filed: 1994-08-16 / 1993-01-29

Application Number: [JP1993000034495](#)

IPC Code: [C07H 19/06; A61K 31/70;](#)

Priority Number: 1993-01-29 [JP1993000034495](#)

Abstract: PURPOSE: To obtain the subject new derivative, composed of a 2'-deoxy-(2'S)- alkylpyrimidine nucleoside derivative, having excellent antiviral activity, good in absorbability, solubility and stability with hardly any side effects and useful as an antiviral agent, etc.

CONSTITUTION: The 2'-position of the saccharide part in a pyrimidine nucleoside derivative expressed by formula I (R1 is amino or OH; Z is protecting group) is alkylated with an alkylating agent (e.g. methylmagnesium bromide) to provide a compound expressed by formula II (R3 is lower alkyl). The hydroxyl group at the 2'-position of the saccharide part in the produced compound expressed by formula II is then acylated with an acylating agent (e.g. methyloxalyl chloride) and subsequently reduced with a reducing agent (e.g. tributyltin hydride) to afford a compound expressed by formula III. The basic part at the 5-position thereof is further halogenated with a halogenating agent (e.g. N-iodosuccinimide) and the protecting group of the saccharide part is then released. The 5'-position of the saccharide part, as necessary, is subsequently phosphorylated to afford the objective nucleoside derivative expressed by formula IV (R2 is halogen; R4 is H or phosphoric acid residue).

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Family: None

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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6914054	2005-07-05	Sommadossi; Jean-Pierre	Idenix Pharmaceuticals, Inc.	Methods and compositions for treating hepatitis C virus infection
	US5627053	1997-05-06	Usman; Nassim	Ribozyme Pharmaceuticals, Inc.	2'deoxy-2'-alkylpyrimidine nucleoside containing nucleic acid

Other Abstract
Info:

CHEMABS 122(03)031836U CAN122(03)031836U [DERABS](#) C94-299800 [DERC94-29](#)
JAPABS 180601C000160 JAP180601C000160



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